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I hereby certify that this correspondence is being transmitted via facsimile to the Commissioner for Patents, c/o C. Wilder at (703) 308-4242 on the date shown below

Docket No.: 28911/36128/US

(PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

RADEN re Patent Application of:

Group Art Unit: 1655

TECH CENTER 1600/2900

NOV 0 8 2002

Application No.: 09/485,245

Filed: March 27, 2000

Examiner: C. Wilder

For: LABELLING COMPOSITION AND METHOD

### DECLARATION OF ALISON HOPKINS UNDER 37 CFR 1.132

Box AF Commissioner for Patents Washington, DC 20231

- 1. I, Alison Hopkins, declare that I am the inventor of the subject matter described and claimed in the above-identified patent application and that I am experienced in the arts of molecular biology and including the art of random prime labeling of nucleic acids.
- I submit this declaration to address issues raised in the Office Action dated May 1, 2002 in the above-identified application as well as in the Interview with the Examiner conducted May 14, 2002.
- 3. In response to the questions presented about the identity and criticality of the buffer used in the experiments presented in the specification, I declare that the buffer recited in claim 2 is not critical to the demonstration of the unexpected results presented on . pages 8 and 9 of the application. The specification at page 7, lines 2 and 3 describes a commercially available nucleotide buffer (N5000/N5500 Amersham International plc, see the Exhibit attached hereto) which comprises Tris-HCl, ph 7.8, MgCl<sub>2</sub> and 2-mercaptoethanol. The specification further teaches that other buffers could be used depending upon the particular polymerase enzymes at page 4, lines 13 through 17 of the specification. The selection of this suitable buffer would be within the scope of a knowledgeable person and would not influence implementation of the invention.

Application No.: 09/485245

4. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the above-identified application or any patent issuing thereon.

Dison Hopkins

Alison Hopkins

October 22, 2002

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# Nick translation kit

N 5500 For radioactive and non-radioactive probe N 5000 For radioactive probe preparation

STORAGE Store at -15°C to -30°C in a non frost-free freezer.

Stored as recommended STABILITY Stable for 3 months,

Not recommended or intended for diagnosis of disease in humans or animals. Do not are internally ne externally in humans of animals. Warning: For research use only,

amersham pharmacia biotech

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# inthe scale preparation of radioactively labelled probe reparation of non-radioactively labelled probes idditional solutions and reagents required Vick translation system protocols Salety Warnings and precautions Components of the system ddittonal Information torage and stability Tilical parameters Jescription

Components of the system Safety warnings and precautions Description	Critical parameters Additional solutions and reagents required	Storage and stability Lurge scale preparation of radioactively labelled preparation of non-radioactively labelled preparations.	Additional Information Monitoring information Radiolabelled nucleotides	Size analysis of probes for in situ hybridization Removal of unincorporated nucleotides Spin columns Selective precipitation of bat. In 1995	Quality control Related products Background references
Nick translation systems  Nucleotide/buffer solution; 100mM each of dATP, dGTP and dTTP in Tris HCl pHT. R, 2 mercaptocthanol, and MgCl, Nucleosit.	2-menaprocthanol and MgCl. 300µM dATP	300µM dCTP - 150µl 300µM dCTP - 150µl	of 10pg/µl DNA 200µl 3	Standard DNA solution; 200ng/µt Hind III digested lambda DNA in 10mM Tris-HCl pHB.0, 1mM EDTA	Water 2x1ml 2x1ml

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COMPONENTS OF THE SYSTEM